



Institutional set up of Energy Efficiency in Thailand and lessons learned

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Existing EE Institutes in Thailand: upstream



Upstream	Agency	Affiliation	Role and responsibility
	National Energy Policy Committee NEPC	CABINET	National Policy & Planning
	Energy Conservation Fund Committee (ENCON FUND)	National Energy Policy Council (NEPC)	Funding Sponsor
	Energy Policy and Planning Office (EPPO)	Ministry of Energy (MOEn)	EE Policy and Planning ENCON Fund Secretariat EE Research Demonstration Publicity EE Education Support
	National Sciences Technology and Innovation Policy Office (STI)	Ministry of Science & Technology (MOST)	Technology Research Policy Maker
	Office of Transportation Policy (OTP)	Ministry of Transport (MOT)	Transport Policy & Planning

Existing EE Institutes in Thailand: midstream



Midstream

Agency	Affiliation	Role and responsibility
Department of Energy Development and Energy Efficiency (DEDE)	Ministry of Energy (MOEN)	EE Regulatory (Designated Building & Industry) EE Promotion (Building & Industry SME) EE Training Labeling (Non Electrical Appliance and Building Material)
Electricity Generation of Thailand (EGAT)	Ministry of Energy (MOEN)	Labeling (Electric Appliance) Demand Side Management (DSM)
Department of Industrial Promotion (DIP)	Ministry of Industry (MOI)	EE Promotion Industry SME
Thai Industrial Standards Institute (TISI)		EE Material, Appliances/Car Standard Regulatory
Department of Public works and Town Country Planning (DPT)	Ministry of Interior (MOI)	Building Permission (Building Code)
Council of Engineering (COE)		Professional Licence (Engineering)
Architect Council of Thailand (ACT)		Professional Licence (Architect)
Department of Public works and Town & Country Planning (DPT)		Building Code Regulatory
National Sciences & Technology Development Agency NSTD	Ministry of Science and Technology (MOST)	Technology Research and Sponsor
National Research Council of Thailand	Prime Minister OFFICE (PMO)	EE Research Sponsor
Universities	Ministry of University Affairs (MUA)	Education Research Testing Laboratory Project Implementation



Existing EE Institutes in Thailand: downstream

	Agency	Affiliation	Role and responsibility
Downstream	Provincial Electricity Authority	Utilities under Ministry of Interior	EE Implementation
	Energy Conservation Center of Thailand (ECCT)	Quasi – Government under DEDE/Federation of Thai Industry (FIT)	
	Energy Consultant/Company ESCO 's	Private Sector	



Lessons learned (National level)

- EE spans over different sectors/ideology/interest
- Single command is ideally most effective management but unlikely to happen
- Good communication on basis of “Win-Win” is vital key but require high profile body/authority
- EE Plan as national agenda formulated by all stakeholders’ participation can help but need long lead time to finish
- Best plan should cover hard/soft technology, financial mechanisms and clearly defined agency/responsibility /role



ECCT Set up

➤ **Set up by**

Cabinet resolution in 1985

under **FTI** and **NEA** (now DEDE)

as, interim implementing agency

(non profit organization)

➤ **Model employed**

Energy conservation center of japan (ECCJ)

➤ **Source of revenue**

- Start up fund from government
- Revenue form services / memberships



ADVANTAGES

STRENGTHS

- Confidence / recognition
- Accessibility to information
- Networking easiness
- No profit constraint
- Good government relationship

OPPORTUNITIES

- Accessibility to government projects
- Accessibility to foreign assistance
- Tax privilege
- Immature market



DISADVANTAGES

WEAKNESSES

- Non profit misperception
- Incompetitive remuneration
 - Hard to recruit and retain high quality personnel
- Jurisdiction / authority / flexibility

THREATS

- Conflict of interest :
 - Government role vs market mechanism
- Public sector mindset / bureaucracy
- Mature market



Should Have Roles and Responsibilities

- Implementing pilot and demonstration projects
- Act as government's representative particularly in regulatory issues
- Accreditation / standardization
- EE measurement / verification and arbitration
- EE services for the underprivileged
- Awareness and behavior change campaign
- Information dissemination
- Technical support/training
- Financial arrangement
- EE analysis feed back and recommendation



Envisaged Resources and Sources

FINANCIAL

- Government, donor country / agency
(Partial support for a certain period)
- Fee / charge from EE services
- Membership

TECHNICAL KNOWLEDGE

- Networking (domestic / international)



Envisaged Resources and Sources

HUMAN

- Core personnel (in house)
- Net working (domestic, international)

PHYSICAL

- Measuring instruments (own / rent)
- Testing laboratory (net working)



Q&A

Thank You!